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PTO/SB08A (08-03)

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Substitute for form 1449/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	Not Yet Accorded 10/534217
		Filing Date	Not Yet Accorded 5/6/2005
		First Named Inventor	Kannan Ramanathan
		Art Unit	Not Yet Accorded 153
		Examiner Name	Not Yet Accorded Diamond
Sheet 1 of 2	Attorney Docket Number	NREL IR 02-29	

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (If known)			
ADD	1	US 6,355,874 B1	03/12/2002	Yagi et al.	—
ADD	2	US 6,040,521	03/21/2000	Kushiya et al.	—
ADD	3	US 4,751,149	06/14/1988	Vijayakumar et al.	—
ADD	4	US 5,990,416	11/23/1999	Windisch, Jr. et al.	—
ADD	5	US US2002/0043279 A1	04/18/2002	Karg et al.	—
ADD	6	US 5,474,939	12/12/1995	Pollock et al.	—
ADD	7	US 6,458,673 B1	10/01/2002	Cheung	—
ADD	8	US 4,335,266	06/01/1982	Mickelsen et al.	—
ADD	9	US 4,612,411	09/16/1986	Weiting et al.	—
ADD	10	US 6,346,184 B1	02/12/2002	Sano et al.	—
	11	US-			
	12	US-			
	13	US-			
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FOREIGN PATENT DOCUMENTS						
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Examiner Signature	<i>Al Dine</i>	Date Considered	4/5/06
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		Art Unit	Not Yet Accorded 1753		
		Examiner Name	Not Yet Accorded Diamond		
Sheet	2	of	2	Attorney Docket Number	NREL IR 02-29

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
ADD	1	Tomar, M.S. and Garcia, F.J., "A ZnO/p-CuInSe ₂ Thin Film Solar Cell Prepared Entirely by Spray Pyrolysis," Thin Solid Films, 90 (1982), pgs. 419-423.	—
ADD	2	"Chemical Vapor Deposited Copper Indium Diselenide Thin Film Materials Research" Final Report, March 1984, SERI/STR-211-2247.	—
ADD	3	Terheggen et al., "Ga ₂ O ₃ segregation in Cu(In, Ga)Se ₂ /ZnO superstrate solar cells and its impact on their photovoltaic properties.	—
ADD	4	Ramanathan et al., "Surface Treatment of CuInGaSe ₂ Thin Films and Its Effect on the Photovoltaic Properties of Solar Cells" In: National Renewable Energy Laboratory conference paper preprint. NREL: Colorado, October 2002, pgs. 1-6, especially page 1.	—
ADD	5	Nishiwaki et al. "Preparation of Zn Doped Cu(InGa)Se ₂ Thin Films by Physical Vapor Deposition for Solar Cells. Solar Energy Materials & Solar Cells. 01 June 2003, Vol. 77, No. 4, pgs 359-368, especially pgs. 360-361.	—
ADD	6	Yamada et al. "Buried pn Homojunction in Cu(InGa)Se ₂ solar cells formed by intentional Zn doping. In: Conference Record of the 28th Photovoltaic Specialists Conference. IEEE, 15-22 September 2000, pgs 462-465, especially pg. 462.	—
ADD	7	Delahoy et al. "Charging and Discharging of Defect States in CIGS/ZnO Junctions. Thin Solid Films. 2000, Vol. 361-362, pgs. 140-144, especially pg. 361.	—

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